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## United States Department of Agriculture,

WASHINGTON, D. C., April 30, 1915.

### MONTHLY LIST OF PUBLICATIONS.

[APRIL, 1915.]

Copies of any of the publications listed herein, except the *Journal of Agricultural Research*, *Experiment Station Record*, and publications of the *Weather Bureau*, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

When this department's supply is exhausted, publications can be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

#### REPORTS.

Potash from Kelp. By Frank K. Cameron, In Charge Chemical, Physical, and Fertilizer Investigations. Pp. 122, pls. 40, figs. 2, maps 69, in portfolio. Contribution from the Bureau of Soils. Apr. 10, 1915. (Report No. 100, Office of the Secretary.) Price, \$2.00.

The department has no copies of this report in stock. It can be secured through the Office of the Superintendent of Documents only. Send all remittances to that official direct and not to this Office.

*Journal of Agricultural Research*. Vol. 4, No. 1. April, 1915.

*Contents:* Phoma Destructiva the Cause of a Fruit Rot of the Tomato. By Clara O. Jamieson.—Availability of the Nitrogen in Pacific Coast Kelps. By Guy R. Stewart.—Organic constituents of Pacific Coast Kelps. By D. R. Hoagland.—Sources of the Early Infections of Apple Bitter-Rot. By John W. Roberts.—A Bacteriological Study of Methods for the Disinfection of Hides Infected with Anthrax Spores. By F. W. Tilley.—Observations on Rhizina Inflata. By James R. Weir.—Pseudomonas Citri the Cause of Canker. By Clara H. Hasse.

Pp. 1-100, pls. 10. Price, 25 cents.

NOTE.—THE JOURNAL OF AGRICULTURAL RESEARCH will be distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being \$2.50 per year, 12 numbers.

#### BULLETINS.

Soils of Massachusetts and Connecticut With Especial Reference to Apples and Peaches. By Henry J. Wilder, Scientist in Soil Survey. Pp. 73, pls. 21, figs. 2. Contribution from the Bureau of Soils. Apr. 5, 1915. (Department Bulletin 140.) Price, 25 cents.

Of especial interest to fruit growers in the States named.

Tests of Wood Preservatives. By Howard F. Weiss, Director, and C. H. Teesdale, In Charge of Wood Preservation, Forest Products Laboratory, Madison, Wis. Pp. 20, pls. 6. Contribution from the Forest Service. (Professional Paper.) Apr. 12, 1915. (Department Bulletin 145.) Price, 10 cents.

Contains results of tests of various commercial compounds and chemicals claimed to have wood preservative qualities.

The Life History and Habits of the Pear Thrips in California. By S. W. Foster and P. R. Jones, Entomological Assistants, Deciduous Fruit Investigations. Pp. 52, pls. 5, figs. 14. Contribution from the Bureau of Entomology. (Professional Paper.) Apr. 13, 1915. (Department Bulletin 173.) Price, 15 cents.

Contains the history and economic importance of, and describes character of injury done by pear thrips. Is technical and of interest to entomologists.

**Farm Experience With the Tractor.** By Arnold P. Yerkes, Scientific Assistant, and H. H. Mowry, Assistant Agriculturist, Office of Farm Management. Pp. 44. Contribution from the Bureau of Plant Industry. Apr. 15, 1915. (Department Bulletin 174.) Price, 5 cents.

This bulletin is intended to make available to farmers who contemplate buying a tractor the experience of many other farmers who have already used one; it is suitable for distribution west of the Mississippi River.

**Mushrooms and Other Common Fungi.** By Flora W. Patterson, Mycologist, and Vera K. Charles, Assistant Mycologist, Office of Pathological Collections and Inspection Work. Pp. 64, pls. 38, fig. 1. Contribution from the Bureau of Plant Industry. Apr. 29, 1915. (Department Bulletin 175.) Price, 30 cents.

This bulletin describes various species of edible and poisonous mushrooms and is for general distribution.

**Native American Species of Prunus.** By W. F. Wight, Botanist. Pp. 75, pls. 13, figs. 3. Contribution from the Bureau of Plant Industry. (Professional Paper.) Apr. 2, 1915. (Department Bulletin 179.) Price, 20 cents.

This bulletin is intended for horticulturists in all parts of the United States, especially those who are studying varieties or doing work in plant breeding.

**Soil Erosion in the South.** By R. O. E. Davis, Scientist in Soil Laboratory Investigations. Pp. 23, pls. 9. Contribution from the Bureau of Soils. Apr. 16, 1915. (Department Bulletin 180.) Price, 10 cents.

This bulletin is of general interest, but especially in Virginia, Tennessee, Missouri, Mississippi, Alabama, Georgia, South Carolina, and North Carolina.

**A Report on the Methods and Costs of Reclaiming the Overflowed Lands Along the Big Black River, Mississippi.** By Lewis A. Jones, Drainage Engineer, Assisted by W. J. Schlick, Drainage Engineer, and C. E. Ramser, Assistant Drainage Engineer. Pp. 39, figs. 9, maps 11. Contribution from the Office of Experiment Stations. (Professional Paper.) Apr. 12, 1915. (Department Bulletin 181.) Price, 30 cents.

This report is intended for engineers, landowners, and others interested in drainage enterprises in regions where the conditions are similar to those here described; it is suitable for distribution in the Gulf Coast States.

**Morphology of the Barley Grain With Reference to Its Enzym-Secreting Areas.** By Albert Mann, Plant Morphologist, and H. V. Harlan, Agronomist in Charge of Barley Investigations. Pp. 32, pls. 8, figs. 5. Contribution from the Bureau of Plant Industry. (Professional Paper.) Apr. 13, 1915. (Department Bulletin 183.) Price, 15 cents.

This paper is intended for distribution to agronomists, station directors, brewery chemists, and selected maltsters.

**The Huisache Girdler.** By M. M. High, Entomological Assistant, Truck Crop and Stored Product Insect Investigations. Pp. 9, pls. 4. Contribution from the Bureau of Entomology. (Professional Paper.) Apr. 8, 1915. (Department Bulletin 184.) Price, 5 cents.

This bulletin contains a technical description of an insect infesting the huisache tree of the Southwest. The form of injury is discussed and methods of control are given.

**Bird Migration.** By Wells W. Cooke, Assistant Biologist. Pp. 47, pls. 4, figs. 20. Contribution from the Bureau of Biological Survey. Apr. 17, 1915. (Department Bulletin 185.) Price, 10 cents.

This bulletin discusses the subject of bird migration. Of interest to nature students and to investigators of the economic relation of birds to agriculture.

**Studies of the Codling Moth in the Central Appalachian Region.** By F. E. Brooks and E. B. Blakeslee, Entomological Assistants, Deciduous Fruit Insect Investigations. Pp. 49, pl. 1, figs. 23. Contribution from the Bureau of Entomology. Apr. 12, 1915. (Department Bulletin 189.) Price, 10 cents.

Contains results of investigations as to the appearance of the Codling Moth in Virginia, Maryland, and West Virginia, and describes some of its natural enemies.

**The Drainage of Irrigated Lands.** By R. A. Hart, Supervising Engineer. Pp. 34, figs. 22. Contribution from the Office of Experiment Stations. Apr. 24, 1915. (Department Bulletin 190.) Price, 10 cents.

The information in this bulletin is intended for drainage engineers and landowners of the arid West. It is not applicable to the humid section of the United States.

**Insects Affecting Vegetable Crops in Porto Rico.** By Thomas H. Jones, Entomological Assistant, Truck Crop and Stored Product Insect Investigations. Pp. 11, pls. 4. Contribution from the Bureau of Entomology. (Professional Paper.) Apr. 8, 1915. (Department Bulletin 192.) Price, 5 cents.

This bulletin enumerates the more common insects attacking vegetable crops in Porto Rico; of interest to entomologists.

**The Drainage of Jefferson County, Texas.** By H. A. Kipp, A. G. Hall, and S. W. Frescoln, Drainage Engineers. Pp. 40, maps 2. Contribution from the Office of Experiment Stations. (Professional Paper.) Apr. 30, 1915. (Department Bulletin 193.) Price, 15 cents.

This report is intended especially for engineers, drainage district officials, and present and prospective owners of land near the Gulf of Mexico, particularly in Texas and Louisiana. The run-off formula and discussion will interest all engineers concerned with land drainage.

**Report Upon the Cypress Creek Drainage District, Desha and Chicot Counties, Arkansas.** By S. H. McCrory, O. G. Baxter, D. L. Yarnell, L. A. Jones, and W. J. Schlick, Drainage Engineers. Pp. 20, fig. 1, maps 4. Contribution from the Office of Experiment Stations. (Professional Paper.) Apr. 21, 1915. (Department Bulletin 198.) Price, 40 cents.

This bulletin will be of interest to landowners, engineers, and others interested in the reclamation of swamp and overflowed lands along the Mississippi River.

**Loss in Tonnage of Sugar Beets by Drying.** By Harry B. Shaw, Assistant Pathologist, Cotton and Truck Disease and Sugar-Plant Investigations. Pp. 12, figs. 5. Contribution from the Bureau of Plant Industry. Apr. 7, 1915. (Department Bulletin 199.) Price, 5 cents.

This bulletin takes up the subject of the losses incurred by allowing sugar beets to lie in the field. The data applying specifically to conditions in the Western States, such as Kansas, Colorado, and Arizona, but they are equally applicable to the regions having relatively higher humidity.

**Field Studies of the Crown-Gall of Sugar Beets.** By C. O. Townsend, Pathologist in Charge of Sugar-Beet Investigations. Pp. 8, pls. 2, fig. 1. Contribution from the Bureau of Plant Industry. (Professional Paper.) Apr. 30, 1915. (Department Bulletin 203.) Price, 5 cents.

This bulletin gives the distribution, appearance, cause, quality, and effects of beet galls, with methods of control.

**Seed Production of Western White Pine.** By Raphael Zon, Chief of Forest Investigations. Pp. 15. Contribution from the Forest Service. (Professional Paper.) Apr. 17, 1915. (Department Bulletin 210.) Price, 5 cents.

This bulletin contains a report upon an investigation of the seed production of western white pine and a discussion of the method of measuring the seed crop.

**The Use of Land in Teaching Agriculture in Secondary Schools.** By Eugene Merritt, Assistant in Agricultural Education. Pp. 12. Contribution from the Office of Experiment Stations. Apr. 15, 1915. (Department Bulletin 213.) Price, 5 cents.

This bulletin describes how land is being used in the teaching of agriculture in secondary schools and discusses some of the problems involved. It is written to aid all persons who are engaged or interested in the teaching of agriculture.

**Cotton Warehouses: Storage Facilities Now Available in the South.** By Robert L. Nixon, Assistant in Cotton Marketing. Pp. 26. Contribution from the Office of Markets and Rural Organization. Apr. 26, 1915. (Department Bulletin 216.) Price, 5 cents.

This bulletin deals with the cotton warehouse situation of the South, with special reference to conditions in Georgia and North Carolina. It should be of special interest to farmers, warehousemen, and cotton factors, merchants, and bankers of the South.

**Strawberry Supply and Distribution in 1914.** By Wells A. Sherman, Specialist in Market Surveys; Houston F. Walker, Scientific Assistant; and O. W. Schleussner, Market Assistant. Pp. 10, figs. 2. Contribution from the Office of Markets and Rural Organization. Apr. 20, 1915. (Department Bulletin 237.) Price, 5 cents.

This bulletin is of general interest to strawberry growers, shippers, dealers, transportation companies, and consumers, and to all engaged in the trade in berries and fruits.

**Contents and Index to Technical Series No. 25, Bureau of Entomology.** Pp. v.+41-43. Apr. 26, 1915. Price, 5 cents.

**Revision of the American Marmots.** By Arthur H. Howell, Assistant Botanist, Biological Survey. Pp. 80, pls. 15, figs. 3. Apr. 7, 1915. (North American Fauna, No. 37.) Price, 20 cents.

This report furnishes descriptions of 26 forms and contains a series of maps showing their geographic distribution.

**Effect of Fertilizers on the Physical Properties of Hawaiian Soils.** By William McGeorge, Assistant Chemist. Pp. 31, figs. 2. Apr. 24, 1915. (Bulletin 38, Hawaii Agricultural Experiment Station.) Price, 5 cents.

**Marketing Maine Potatoes.** By C. T. More, Investigator in Marketing Perishable Products, and G. V. Branch, Investigator in City Marketing, Office of Markets and Rural Organization. Pp. 7. Apr. 2, 1915. (Circular 48, Office of the Secretary.)

Contains suggestions for improving marketing conditions, and grading rules.





Motor Vehicle Registrations and Revenues, 1914. Prepared by Division of Road Economics, Office of Public Roads, February, 1915. Pp. 1. (Circular 49, Office of Secretary.)

#### FARMERS' BULLETINS.

**Manufacture and Use of Unfermented Grape Juice.** By George C. Husmann, Pomologist in Charge of Viticultural Investigations, Office of Horticultural and Pomological Investigations. Pp. 16, figs. 14. Contribution from the Bureau of Plant Industry. Apr. 9, 1915. (Farmers' Bulletin 644.)

This bulletin gives instructions for making grape juice for home use and in commercial quantities. The bulletin is suitable for distribution throughout the country.

**The Control of Root-Knot.** By Ernst A. Bessey, Collaborator, and L. P. Byars, Pathologist, Office of Cotton and Truck Disease and Sugar-Plant Investigations. Pp. 19, figs. 20. Contribution from the Bureau of Plant Industry. Apr. 1, 1915. (Farmers' Bulletin 648.)

This bulletin describes conditions favoring root-knot, methods of spreading the parasites, and suggests remedies for its control.

**The Sheep-Killing Dog.** By V. O. McWhorter, Animal Husbandry Division. Pp. 13, figs. 3. Contribution from the Bureau of Animal Industry. Apr. 16, 1915. (Farmers' Bulletin 652.)

Shows the annual loss caused by sheep-killing dogs and discusses state laws relating to same.

**How Farmers May Improve Their Personal Credit.** By C. W. Thompson, Specialist in Rural Organization Work. Pp. 14. Contribution from the Office of Markets and Rural Organization. Apr. 3, 1915. (Farmers' Bulletin 654.)

Intended to give farmers some practical methods for improving their personal credit through cooperation. Of interest to farmers generally, and particularly to those of the South and of the West.

**Cottonseed Meal for Feeding Beef Cattle.** By W. F. Ward, Senior Annual Husbandman in Beef Cattle Investigations, Animal Husbandry Division. Pp. 8. Contribution from the Bureau of Animal Industry. Apr. 10, 1915. (Farmers' Bulletin 655.)

Gives the results of experiments in feeding cottonseed meal to beef cattle in varying proportions and offers suggestions for its profitable use. It will be of interest to farmers and cattle raisers generally.

**The Community Egg Circle.** By C. E. Bassett, Specialist in Cooperative Organization, and W. H. Kerr, Investigator in Market Business Practice. Pp. 7. Contribution from the Office of Markets and Rural Organization. Apr. 6, 1915. (Farmers' Bulletin 656.)

Intended for all farmers who would be interested in the formation of a community circle for the marketing of eggs. It would be of especial interest at this time to farmers in the cotton belt who desire to diversify their farming because of the economic crisis which adversely affects the cotton crop at present.

**The True Clothes Moths.** By C. L. Marlatt, Entomologist. Pp. 8, figs. 3. Contribution from the Bureau of Entomology. Apr. 5, 1915. (Farmers' Bulletin 659.)

This bulletin is of interest to housekeepers and those who have anything to do with fur and wool, in either the raw or the manufactured state.

**A Method of Analyzing the Farm Business.** By E. H. Thomson, Agriculturist, and H. M. Dixon, Scientific Assistant, Office of Farm Management. Pp. 26. Contribution from the Bureau of Plant Industry. Apr. 24, 1915. (Farmers' Bulletin 661.)

In this bulletin a method is outlined for an analysis of the farm business to determine the investment, receipts, expenses, and labor income involved.

**Strawberry Growing in the South.** By H. C. Thompson, Horticulturist, Office of Horticultural and Pomological Investigations. Pp. 20, figs. 11. Contribution from the Bureau of Plant Industry. Apr. 30, 1915. (Farmers' Bulletin 664.)

This bulletin is intended to meet the needs of all growers of strawberries in the South, more especially those who are producing on a commercial scale.

**Foot and Mouth Disease.** By John R. Mohler, V. M. D., Assistant Chief, Bureau of Animal Industry. Pp. 16, figs. 7. Contribution from the Bureau of Animal Industry. Apr. 22, 1915. (Farmers' Bulletin 666.)

This bulletin is largely a revision of the department's earlier publications on the subject. It is intended for general distribution.

**The Agricultural Outlook.** Contribution from the Bureau of Crop Estimates. Apr. 23, 1915. Pp. 28. (Farmers' Bulletin 672.)